



Atty. Dkt. No. 039363-1106

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milburn
Title: PDE5A CRYSTAL STRUCTURE
AND USES
Appl. No.: 10/771,833
Filing Date: 02/03/2004
Examiner: Unknown
Art Unit: 1646

CERTIFICATE OF MAILING

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DIANE GARCIA
(Printed Name)
Diane Garcia
(Signature)
10-1-04
(Date of Deposit)

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Amendment-IDS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to Pre-OG Notice from Office of Patent Legal Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without*

Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicant respectfully requests that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even

entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

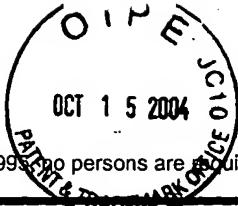
Respectfully submitted,

Date 1 October 2004

By Wesley B. Ames

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Wesley B. Ames
Attorney for Applicant
Registration No. 40,893



MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 28

Complete if Known

Application Number	10/771,833
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First Named Inventor	Michael V. Milburn
Group Art Unit	
Examiner Name	

Attorney Docket Number 039363-1106

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
A1	4,568,649			Bertoglio-Matte	02-04-1986	
A2	4,626,513			Burton et al.	12-02-1986	
A3	5,143,854			Pirring et al.	09-01-1992	
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A7	5,763,198			Hirth et al.	06-09-1998	
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A28	6,113,913			Brough et al.	09-05-2000	

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				Group Art Unit	
				Examiner Name	
(use as many sheets as necessary)				Attorney Docket Number	039363-1106
Sheet	2	of	28		

U.S. PATENT DOCUMENTS

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A29	6,117,681		Salmons et al.	09-12-2000
A30	6,143,746		Daugan et al.	11-07-2000
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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
A47	EP	0463756		A	Pfizer Inc.	04-19-1995		
A48	EP	0526004		A	Pfizer Limited and Pfizer Inc.	10-08-1997		
A49	EP	0995751		A	Pfizer Limited and Pfizer Inc.	04-26-2000		
A50	EP	0995750		A	Pfizer Limited and Pfizer Inc.	04-26-2000		
A51	EP	0,154,734			Immunex Corporation	08-29-1990		
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A53	WO	03/038080			Pfizer Limited	05-08-2003		
A54	WO	93/06104			Pfizer Limited and Pfizer Inc.	04-01-1993		
A55	WO	93/07124			Eisai Co.	04-15-1993		
A56	WO	93/07149			Pfizer Limited and Pfizer Inc.	04-15-1993		

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	A57	WO	93/12095	Pfizer Limited and Pfizer Inc.	06-24-1993	
	A58	WO	94/00453	Pfizer Limited and Pfizer Inc.	01-06-1994	
	A59	WO	95/19978	Laboratories Glaxco S.A.	07-27-1995	
	A60	WO	96/17958	The Regents of the University of California and The medical Research Council	06-13-1996	
	A61	WO	96/18738	Sugen Inc. and New York university	06-20-1996	
	A62	WO	97/46313	Array Technologies	12-11-1997	
	A63	WO	98/49166	Pfizer Limited	11-05-1998	
	A64	WO	99/09217	Hyseq, Inc.	02-25-1999	
	A65	WO	99/51773	Phylos, Inc.	10-14-1999	
	A66	WO	99/54333	Pfizer Inc. and Pfizer Limited	10-28-1999	

NON PATENT LITERATURE DOCUMENTS		
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	A67	AARONSON, "Growth Factors and Cancer," <i>Science</i> 254:1146-1153 (1991)
	A68	ALFTHAN, "Surface Plasmon Resonance Biosensors as a Tool in Antibody Engineering," <i>Biosensors & Bioelectronics</i> 13:653-663 (1998)
	A69	AL-OBEIDI, "Peptide and Peptidomimetic Libraries – Molecular Diversity and Drug Design," <i>Mol Biotechnol</i> 9(3):205-223 (1998)
	A70	AMERSDORFER and MARKS, "Phage Libraries for Generation of Anti-Botulinum scFv Antibodies," <i>Methods in Molecular Biology</i> 145:219-240 (2001)
	A71	BAGSHAW and HARRIS, "Measurement of Ligand Binding to Proteins," <i>Spectrophotometry and Spectrofluorometry: A Practical Approach</i> 4:91-114 (1987)

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	A72	BAKRE et al., <i>FEBS Lett.</i> , 408:345-349 (1997)	
	A73	BALLARD et al., <i>J. Urol.</i> , 159:2164-2171 (1998)	
	A74	BARTLETT et al., "CAVEAT: A Program to facilitate the structure-derived design of biologically active molecules." In Molecular Recognition: Chemical and Biological Problems. The Proceedings of an International Symposium, University of Exeter, April 1989, <i>Royal Society of Chemistry</i> , Cambridge I82-I96 (1989)	
	A75	BEAVO, et al., "Multiple Cyclic Nucleotide Phosphodiesterases," <i>Mol. Pharmacol.</i> 46:399-405 (1994)	
	A76	BELL, "Spectroscopy In Biochemistry," <i>CRC Press</i> I:155-194 (1981)	
	A77	BELLIS et al., "Characterization of Tyrosine Phosphorylation of Paxillin in Vitro by Focal Adhesion Kinase," <i>J. Biol. Chem.</i> 270:17437-17441 (1995)	
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	A80	BÖHM, "On the Use of LUDI to Search the Fine Chemicals Directory for Ligands of Proteins of Known Three-Dimensional Structure," <i>J. Comp. Aided Molec. Design</i> 8:623 (1994)	
	A81	BOLGER and SHERMAN, "Computer Modeling of Combing Site Structure of Anti-Hapten Monoclonal Antibodies," <i>Methods Enz.</i> 203:21-45 (1991)	

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	A82	BOWTELL, "Options Available – From Start to Finish – For Obtaining Expression Data by Microarray," <i>Nature Genetics Supp.</i> 21:25-32 (1999)	
	A83	BRENNER <i>et al.</i> , "Encoded Combinatorial Chemistry," <i>Proc. Natl. Acad. Sci. USA</i> , 89:5381-5383 (1992)	
	A84	BROWN and BIRNBAUMER, "Ionic Channels and Their Regulation by G Protein Subunits," <i>Ann. Rev. Physiol.</i> 52:197-213 (1990)	
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	A90	CHABALA, "Solid-Phase Combinatorial Chemistry and Novel Tagging Methods for Identifying Leads," <i>Curr Opin Biotechnol</i> 6(6):633-639 (1995)			
	A91	CHARBONNEAU, H., "Structure-Function Relationships Among Cyclic Nucleotide Phosphodiesterases," <i>Cyclic Nucleotide Phosphodiesterases: Structure, Regulation and Drug Action</i> , pp. 267-296 (1990)			
	A92	CHECOVICH, <i>et al.</i> , "Fluorescence Polarization – A New Tool for Cell and Molecular Biology," <i>Nature</i> 375:254-256 (1995)			
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	A94	COBB <i>et al.</i> , "Stable Association of pp60 ^{src} and pp59 ^{lyn} with the Focal Adhesion-Associated Protein Tyrosine Kinase, pp125 ^{FAK} ," <i>Mol. Cell. Biol.</i> 14(1):147-155 (1994)			
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	A96	COLLIUOD <i>et al.</i> , "Oriented and Covalent Immobilization of Target Molecules to Solid Supports: Synthesis and Application of a Light-Activatable and Thiol-Reactive Cross-Linking Reagent," <i>Bioconjugate Chem.</i> 4:528-536 (1993)			
	A97	COLMAN, "Structure-Based Design," <i>Current Opinion in Struc. Biol.</i> 4:868 (1994)			

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	A98	CONTI <i>et al.</i> , "Recent Progress in Understanding the Hormonal Regulation of Phosphodiesterases," <i>Endocr. Rev.</i> , 16:370-389 (1995)	
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	A106	DOBELI, "Recombinant Fusion Proteins for the Industrial Production of Disulfide Bridge Containing Peptides: Purification, Oxidation Without Concatamer Formation, and Selective Cleavage," <i>Protein Expr. Purif.</i> 12:404-414 (1998)	
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	A109	DUONG et al., "PYK2 in Osteoclasts is an Adhesion Kinase, Localized in the Sealing Zone, Activated by Ligation of α/β_3 Integrin, and Phosphorylated by Src Kinase," <i>J Clin Invest.</i> 102:881-892 (1998)	
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	A114	FIVASH et al., "BIACore for Macromolecular Interaction," <i>Current Opinion in Biotechnology</i> 9:97-101 (1998)				
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	A119	FRANCIS et al., "Purification of cGMP-Binding Protein Phosphodiesterase from Rat Lung," <i>Methods Enzymol.</i> 159:722-729 (1988)				
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	A121	FREIDINGER, RM., "Nonpeptidic Ligands for Peptide and Protein Receptors," <i>Current Opinion in Chemical Biology</i> 3:395-406 (1999)				

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				Group Art Unit	
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				First Named Inventor	Michael V. Milburn
				Group Art Unit	
				Examiner Name	
(use as many sheets as necessary)				Attorney Docket Number	039363-1106
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	A241	SHEETS et al., "Efficient Construction of a Large Nonimmune Phage Antibody Library: the Production of High-Affinity Human Single-Chain Antibodies to Protein Antigens," (published erratum) <i>Proc Natl Acad Sci USA</i> 95:6157-6162 (1998)	

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